

determining a speed of the vehicle; and

setting a maximum allowed vehicle deceleration based on the vehicle speed determined, wherein setting the maximum allowed vehicle deceleration comprises decreasing the maximum allowed vehicle deceleration as the vehicle speed increases.

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Concl.*  
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4. (Second Amendment) In an adaptive speed control system for a vehicle, a method for controlling vehicle deceleration, the method comprising:

determining a speed of the vehicle; and

setting a maximum allowed vehicle deceleration based on the vehicle speed determined, wherein setting the maximum allowed vehicle deceleration comprises increasing the maximum allowed vehicle deceleration as the vehicle speed decreases.

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6. (Second Amendment) In an adaptive speed control system for a vehicle, a method for controlling vehicle deceleration, the method comprising:

determining a speed of the vehicle; and

setting a maximum allowed vehicle deceleration based on the vehicle speed determined, wherein the maximum allowed vehicle deceleration varies in a range between about 0.2 g and 0.3 g.

4

7. (Second Amendment) In an adaptive speed control system for a vehicle, a method for controlling vehicle deceleration, the method comprising:

determining a speed of the vehicle; and

setting a maximum allowed vehicle deceleration based on the vehicle speed determined, wherein the maximum allowed vehicle deceleration is an exponential function of the vehicle speed.

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11. (Second Amendment) In an adaptive speed control system for a vehicle, a system for controlling vehicle deceleration, the system comprising:

a receiver capable of receiving an input signal indicative of a speed of the vehicle; and

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a controller capable of setting a maximum allowed vehicle deceleration based on the vehicle speed, wherein, to set the maximum allowed vehicle deceleration, the controller is operative to decrease the maximum allowed vehicle deceleration as the vehicle speed increases.

12. (Second Amendment) In an adaptive speed control system for a vehicle, a system for controlling vehicle deceleration, the system comprising:

a receiver capable of receiving an input signal indicative of a speed of the vehicle; and

a controller capable of setting a maximum allowed vehicle deceleration based on the vehicle speed, wherein, to set the maximum allowed vehicle deceleration, the controller is operative to increase the maximum allowed vehicle deceleration as the vehicle speed decreases.

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14. (Second Amendment) In an adaptive speed control system for a vehicle, a system for controlling vehicle deceleration, the system comprising:

a receiver capable of receiving an input signal indicative of a speed of the vehicle; and

a controller capable of setting a maximum allowed vehicle deceleration based on the vehicle speed, wherein the maximum allowed vehicle deceleration varies in a range between about 0.2 g and 0.3 g.

15. (Second Amendment) In an adaptive speed control system for a vehicle, a system for controlling vehicle deceleration, the system comprising:

a receiver capable of receiving an input signal indicative of a speed of the vehicle; and

a controller capable of setting a maximum allowed vehicle deceleration based on the vehicle speed, wherein the maximum allowed vehicle deceleration is an exponential function of the vehicle speed.

17. (New) In an adaptive speed control system for a vehicle, a method for controlling vehicle deceleration, the method comprising:

determining a speed of the vehicle; and

setting a maximum allowed vehicle deceleration based on the vehicle speed determined, wherein the maximum allowed vehicle deceleration is variable.

18. (New) In an adaptive speed control system for a vehicle, a system for controlling vehicle deceleration, the system comprising:

a receiver capable of receiving an input signal indicative of a speed of the vehicle; and

a controller capable of setting a maximum allowed vehicle deceleration based on the vehicle speed, wherein the maximum allowed vehicle deceleration is variable.